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Fourth Quarter Groundwater Monitoring Event and Summary Report at Stoody Company 16425 Gale Avenue City of Industry, California Clayton Project No. 29188.00 June 8, 1990

CONTENTS

1.0 INTRODUCTION

This report documents the results of the fourth quarterly groundwater monitoring event and summarizes the results of all four quarterly monitoring events for groundwater sampling at the Stoody Company facility, 16425 Gale Avenue, Industry, California. Quarterly groundwater monitoring was requested for the Stoody facility by the California Regional Water Quality Control Board, Los Angeles Region (CRWQCB) in correspondence dated July 19, 1988 (File No. AB105.263). Activities conducted during these groundwater monitoring events included measurement of water levels, and sampling and analysis of groundwater from the four onsite monitoring wells (MW-1, MW-2, MW-3, and MW-4) (Figure 1). Clayton performed the four quarterly groundwater monitoring events on February 2, 1989 (MW-1, MW-2, MW-3), and March 28, 1989 (MW-4), August 2, and October 16, 1989, and April 24, 1990.

2.0 CONCLUSIONS AND RECOMMENDATIONS

Water level measurements and groundwater samples were collected from four onsite monitoring wells during four quarterly events at the Stoody Company facility. Water level elevations have consistently decreased throughout the year of monitoring. The water level has dropped an average of 3.26 feet from the first to the last quarter monitoring event. Measurements from the fourth-quarter monitoring show an average drop in water level of 0.41 feet from the third-quarter elevations. This recent average decrease in water level is smaller that the average decreases between the first and second quarter monitoring (1.78 feet) and between the second and third quarter monitoring (1.05 feet).

Groundwater samples from the first and second monitoring events were analyzed for volatile organic compounds using EPA Method 624 and water turbidity. The groundwater samples from the third event were analyzed using EPA method 624-Modified, EPA Method 625, and inorganic laboratory analyses for total dissolved solids, chloride, nitrate, and sulfate. EPA Methods 601 and 602, and turbidity were used to analyze the fourth event groundwater samples.

Results from the fourth quarterly analysis support the second and third quarterly results in that all of the volatile organic compounds detected in samples from the onsite downgradient wells (MW-1, MW-2, MW-3) were also present in similar concentrations in the upgradient well (MW-4). During the initial groundwater analysis (February 3, 1989: Clayton Project No. 21171.00), three compounds (benzene, toluene, and chlorobenzene) were detected in the downgradient well (MW-2), but not in the upgradient well (MW-4). However, these compounds did not appear in any of the samples from the monitoring wells in the second, third, and fourth quarter analyses.

Laboratory results from the farthest downgradient well (MW-3) on the Stoody property consistently showed the fewest number of detected compounds using the various EPA Method analyses.

The laboratory results suggest that the compounds detected in the shallow groundwater at the Stoody facility originated from an offsite source(s). Clayton

recommends that information from pre-existing offsite wells, both upgradient and downgradient, be examined and considered in the general assessment of the groundwater quality under the Stoody facility and prior to the implementation of further subsurface investigation at the facility.

Clayton recommends that this report be submitted to the CRWQCB for review and approval.

3.0 FIELD ACTIVITIES

Water-level measurement and groundwater sample collection for the four quarterly events occurred on February 2, 1989 (MW-1, MW-2, MW-3) and March 28, 1989 (MW-4); August 2, 1989; October 16, 1989; and April 24, 1990. Procedures followed during the monitoring events are outlined below.

3.1 WATER LEVEL MEASUREMENTS

Water level measurements were taken using a Teflon™ measuring tape. The measurements were then retaken with an electronic water level measuring device (Slope Indicator Company Water Level Indicator, Model 51453). Depth to water level measurements are accurate to within 0.01-inches. The measurements ranged from 27.40 feet to 29.80 feet during the fourth event, and from 24.11 feet to 29.80 feet over the four monitoring events. Water level measurements calculated relative to mean sea level (MSL) are listed in Table 1.

The four monitoring wells presently at Stoody are capped with lockable PVC caps and protected at the surface with metal-covered wellhead boxes. An O-ring type seal is in place between the cover and the box. The interiors of the wellhead boxes were clean and in good condition. The concrete pads around the wellheads are in good condition with no evidence of cracking or scaling. The well caps and the wellhead lids are locked between sampling events.

3.2 GROUNDWATER SAMPLING

The groundwater monitoring wells were most recently sampled on April 24, 1990, in the following order: MW-3, MW-2, MW-4, MW-1. Prior to sampling, the wells were purged using a steel bailer attached to a truck-mounted mast/pulley system (a well purging rig). The bailer and attached cable were steam-cleaned between wells. To minimize cross-contamination, line used to sample each well was not reused in other onsite wells. A minimum of three casing volumes of water were removed from each well. Purging was discontinued after three casing volumes of water were removed and water quality stabilized to within 10% of the parameter values obtained for the previous casing volume. Water quality parameters (pH, temperature, and electrical conductivity) are provided on the water sampling field survey forms (Appendix A).

Precleaned, hand-held Teflon™ bailers attached to nylon line were used to collect the groundwater samples. The bailers were washed with tap water and Alconox™, and rinsed with potable water between sampling events. The washing was followed by a final double-rinsing with deionized water. To further enhance

cleanliness during sampling procedures, the area immediately adjacent to each well was covered with plastic sheeting. In addition, Clayton personnel wore precleaned Neoprene™ gloves during sample collection and handling.

The samples were collected using the container and preservation guidelines of the U.S. Environmental Protection Agency (EPA 40 CFR 136). After they were filled with groundwater, the sample containers were labeled, wrapped in shock-absorbing foam sheeting, and placed on ice in a portable cooler. Using similar procedures, a sample was also collected from the deionized water rinseate (labeled "field blank") used to final rinse the bailers.

Within 24 hours of collection, the samples were transported under standard chain-of-custody procedures to Clayton's California Department of Health Services-certified laboratory in Pleasanton, California, for analysis. Purged groundwater was placed in Class 17-H, 55-gallon drums. A total of six drums were labeled and placed onsite for disposal by Stoody.

4.0 LABORATORY ANALYTICAL RESULTS

Clayton's laboratory provided analytical services within 3 days of the sampling date for the fourth sampling event. The groundwater samples were analyzed using EPA Methods 601 and 602 for purgeable halocarbons and purgeable aromatics, respectively. The groundwater samples from the first three events were analyzed for purgeable organic compounds using EPA Method 624.

Mr. Dainis Kleinbergs, of the CRWQCB, requested that EPA Methods 601 and 602 be used for the fourth sampling because they detect more compounds and have lower detection limits than EPA Method 624. Also, as requested by the CRWQCB, EPA Methods 624 and 625, as well as inorganic analyses for total dissolved solids (TDS), chloride, nitrate, and sulfate were performed on the samples from the third sampling event.

Turbidity analyses were conducted on all of the samples from the first, second, and fourth sampling events. Total dissolved solids were measured in the samples from the third quarter monitoring event.

The various compounds detected by EPA Method 624 and the additional compounds provided by EPA Methods 601 and 602 which showed concentrations exceeding the detection limits are provided in Table 2. Table 2 presents the results from all four monitoring events in concentration units of micrograms per liter (ug/l). Laboratory analytical reports and chain-of-custody forms for the fourth sampling event are provided in Appendix B.

Laboratory results for the fourth monitoring event by EPA Methods 601 and 602 revealed 10 volatile organic compounds in the sample from MW-1 detected at levels above the detection limit. Compounds detected include the following: 1,1-dichloroethene at 25 ug/l; cis-1,2-dichloroethene at 1.8 ug/l; 1,2-dichloroethene at 1.8 ug/l; chloroform at 0.7 ug/l; 1,1,1-trichloroethane at 2.5 ug/l; carbon tetrachloride at 0.9 ug/l; trichloroethene at 50 ug/l; tetrachloroethene at 120 ug/l: trichlorofluoromethane at 3 ug/l; and freon 113 at 12 ug/l.

Laboratory analysis of MW-2 and MW-4 fourth event samples detected the same 10 volatile organic compounds at similar concentrations as those detected in MW-1.

The sample from MW-3 showed only the following five volatile organic compounds detected above the detection limit: 1,1-dichloroethene at 21 ug/l; 1,1,1-trichloroethane at 2.5 ug/l; trichloroethene at 42 ug/l; tetrachloroethene at 55 ug/l; and freon 113 at 10 ug/l.

The following turbidity values were reported in nephelometric turbidimetric units (NTU) for the samples taken during the fourth monitoring event: MW-1, 9.0; MW-2, 18; MW-3, 7.7; MW-4, 10. These values, as well as total dissolved solid results from the third quarterly analysis, are presented in Table 3.

5.0 DISCUSSION

The static water level in the four monitoring wells has fallen an average of 0.41 feet since the last sampling event. The annual water level change (between the first and fourth monitoring events) showed an average decrease of 3.26 feet.

Groundwater quality parameters measured immediately before sampling have remained generally consistent throughout the sampling events. However, pH values show a slight increase on the fourth event when compared to the previous sampling (Table 4).

Recalculation of groundwater flow using groundwater elevations measured during the fourth sampling event shows a west northwest groundwater flow direction. This flow direction estimate is consistent with the solution measured from the first monitoring event. The upgradient monitoring well is MW-4 and the downgradient monitoring well is MW-3. MW-4 is located on the northeastern edge of the Stoody property, thus representing the water quality of shallow groundwater moving onto the site.

Laboratory analysis of the fourth quarter monitoring samples revealed the presence of four compounds (chloroform; carbon tetrachloride; cis-1,2-dichloroethene; and 1,2-dichloroethene) previously undetected. This is likely the result of using EPA Methods 601 and 602 rather than an actual change in water quality. EPA Methods 601 and 602 provide a lower detection limit and test for more compounds than the previously used EPA Method 624.

The upgradient monitoring well (MW-4) and Monitoring Wells 1 and 2 reveal the largest number of detected volatile organic compounds in the fourth event. All of the compounds detected in the downgradient wells were also present in the upgradient well throughout the year with the exception of toluene, benzene, and chlorobenzene. These three compounds were only detected in the first event at MW-2.

The farthest downgradient well (MW-3) relative to the Stoody property consistently showed the fewest number of volatile organic compounds tested for in the various EPA analysis methods.

Based on the laboratory results from the upgradient well compared to the downgradient wells, it does not appear that the Stoody facility is contributing to the presence of the tested compounds in the groundwater. The consistent detection of the listed volatile organic compounds in the upgradient well suggests that the source of the detected compounds is upgradient. This is supported by the laboratory data from samples from the downgradient well (MW-3) that show the fewest number of volatile organic compounds. If Stoody was contributing to the regional groundwater contamination, higher levels of volatile organic compounds should be detected in MW-1, MW-2, and MW-3, and lower levels detected in MW-4. This is not supported by the laboratory data from this monitoring program.

The information and conclusions supplied in this report are given in response to a limited assignment and should be implemented only in light of that assignment. We accept responsibility for the competent performance of our duties in executing the assignment and preparing this report in accordance with the normal standards of our profession, but disclaim any responsibility for consequential damages.

This report prepared by: J. Elmyn McNinch

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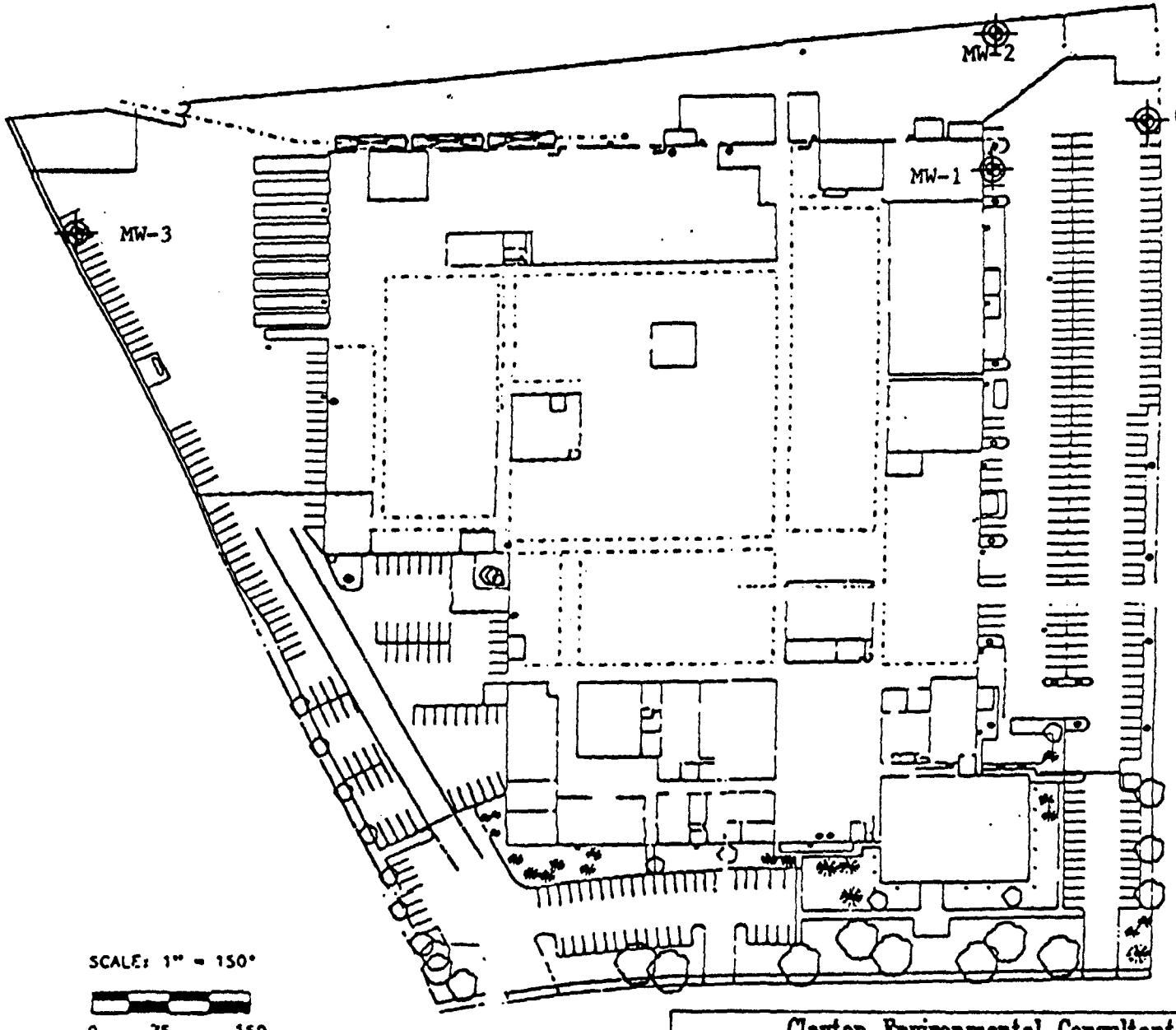

Clayton Environmental Consultants, Inc.		Figure
APPROXIMATE LOCATIONS OF MONITORING WELLS		1
Stoody Company	Project No. 29188.00	6/90

TABLE 1
GROUNDWATER MONITORING WELL DATA

Monitoring Well	MW-1	MW-2	MW-3	MW-4
California Coordinates, Northerly	4 115 307.68	4 115 400.79	4 115 618.57	4 115 298.41
California Coordinates, Easterly	4 304 954.04	4 305 006.99	4 304 433.62	4 305 083.28
Elevation of top of well casing (MSL)	352.18 feet	351.12 feet	349.34 feet	353.55 feet
Total depth of well	45 feet	45 feet	45 feet	44.92 feet
Date of measurement	2/2/89	2/2/89	2/2/89	3/23/89
Depth to water from top of casing	25.14 feet	24.11 feet	26.32 feet	26.30 feet
Elevation of water (MSL)	327.04 feet	327.01 feet	323.02 feet	327.25 feet
Date of measurement	8/2/89	8/2/89	8/2/89	8/2/89
Depth to water from top of casing	27.07 feet	25.97 feet	28.28 feet	27.70 feet
Elevation of water(MSL)	325.11 feet	325.15 feet	321.06 feet	325.85 feet
Date of measurement	10/16/89	10/16/89	10/16/89	10/16/89
Depth to water from top of casing	28.15 feet	26.96 feet	29.37 feet	28.76 feet
Elevation of water (MSL)	324.03 feet	324.16 feet	319.97 feet	324.79 feet
Date of measurement	4/24/90	4/24/90	4/24/90	4/24/90
Depth to water from top of casing	28.60 feet	27.4 feet	29.80 feet	29.10 feet
Elevation of water (MSL)	323.58 feet	323.72 feet	319.54 feet	324.45 feet

TABLE 2
MONITORING WELL MW-1 GROUNDWATER SAMPLES

Method of Analysis		EPA Method 624	EPA Method 624	EPA Method 624	EPA Method 601/60
Date of Analysis		2/3/89	8/4/89	10/25/89	4/26/90
Date of Sampling		2/2/89	8/2/89	10/16/89	4/24/90
Compound	DHS Action Level ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)
Chloromethane	---	ND	ND	ND	ND
Bromomethane	---	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND
Chloroethane	---	ND	ND	ND	ND
Methylene chloride	40	ND	ND	ND	ND
Trichlorofluoromethane	3,400	ND	ND	8	3
1,1-dichloroethene	as ethylene 6	31	27	32	25
1,1-dichloroethane	20	ND	ND	ND	ND
Trans-1,2-dichloroethene	as ethylene 16	ND	ND	ND	ND
Chloroform	---	ND	ND	ND	0.7
1,2-dichloroethane	1	ND	ND	ND	ND
1,1,1-trichloroethane	200	ND	ND	3	2.5
Carbon tetrachloride	5	ND	ND	ND	0.9
Bromodichloromethane	---	ND	ND	ND	ND
1,2-dichloropropane	10	ND	ND	ND	ND
Cis-1,3-dichloropropene	---	ND	ND	ND	ND
Trichloroethene	as ethylene 5	130	59	73	50
Benzene	0.7	ND	ND	ND	ND
Dibromochloromethane	---	ND	ND	ND	ND
1,1,2-trichloroethane	100	ND	ND	ND	ND
Trans-1,3-dichloropropene	---	ND	ND	ND	ND
2-chloroethylvinylether	---	ND	ND	ND	ND
Bromoform	---	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	---	ND	ND	ND	ND
Tetrachloroethene	as ethylene 4	190	49	120	120
Toluene	100	3	ND	ND	ND
Chlorobenzene	30	ND	ND	ND	ND
Ethylbenzene	680	ND	ND	ND	ND
1,3-dichlorobenzene	130	ND	ND	ND	ND
1,2-dichlorobenzene	130	ND	ND	ND	ND
1,4-dichlorobenzene	Limit of quantif. = 0.5	ND	ND	ND	ND
Freon 113	18,000	10	14	19	12
Total Xylenes	620	ND	ND	ND	ND
Cis-1,2-dichloroethene	---	NA	NA	NA	1.8
1,2-dichloroethene (total)	---	NA	NA	NA	1.8

mg/L = milligrams per liter
ug/L = micrograms per liter

ND = not detected at or above detection limit
NA = not analyzed

TABLE 2 (Continued)
MONITORING WELL MW-2 GROUNDWATER SAMPLES

Method of Analysis		EPA Method 624	EPA Method 624	EPA Method 624	EPA Method 601/602
Date of Analysis		2/3/89	8/4/89	10/25/89	4/26/90
Date of Sampling		2/2/89	8/2/89	10/16/89	4/24/90
Compound	DHS Action Level ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)
Chloromethane	---	ND	ND	ND	ND
Bromomethane	---	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND
Chloroethane	---	ND	ND	ND	ND
Methylene chloride	40	ND	ND	ND	ND
Trichlorofluoromethane	3,400	ND	ND	4	2.4
1,1-dichloroethene	as ethylene 6	61	19	18	19
1,1-dichloroethane	20	ND	ND	ND	ND
Trans-1,2-dichloroethene	as ethylene 16	ND	ND	4	ND
Chloroform	---	ND	ND	ND	0.7
1,2-dichloroethane	1	ND	ND	ND	ND
1,1,1-trichloroethane	200	ND	ND	ND	3.3
Carbon tetrachloride	5	ND	ND	ND	0.8
Bromodichloromethane	---	ND	ND	ND	ND
1,2-dichloropropane	10	ND	ND	ND	ND
Cis-1,3-dichloropropene	---	ND	ND	ND	ND
Trichloroethene	as ethylene 5	130	46	37	44
Benzene	0.7	31	ND	ND	ND
Dibromochloromethane	---	ND	ND	ND	ND
1,1,2-trichloroethane	100	ND	ND	ND	ND
Trans-1,3-dichloropropene	---	ND	ND	ND	ND
2-chloroethylvinylether	---	ND	ND	ND	ND
Bromoform	---	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	---	ND	ND	ND	ND
Tetrachloroethene	as ethylene 4	160	43	120	170
Toluene	100	39	ND	ND	ND
Chlorobenzene	30	39	ND	ND	ND
Ethylbenzene	680	ND	ND	ND	ND
1,3-dichlorobenzene	130	ND	ND	ND	ND
1,2-dichlorobenzene	130	ND	ND	ND	ND
1,4-dichlorobenzene	Limit of quantif. = 0.5	ND	ND	ND	ND
Freon 113	18,000	8	9	11	8.5
Total Xylenes	620	ND	ND	ND	ND
Cis-1,2-dichloroethene	---	NA	NA	NA	2.2
1,2-dichloroethene (total)	---	NA	NA	NA	2.2

mg/L = milligrams per liter
ug/L = micrograms per liter
ND = not detected at or above detection limit
NA = not analyzed

TABLE 2 (Continued)
MONITORING WELL MW-3 GROUNDWATER SAMPLES

Method of Analysis		EPA Method 624	EPA Method 624	EPA Method 624	EPA Method 601/602
Date of Analysis		2/3/89	8/4/89	10/25/89	4/26/90
Date of Sampling		2/2/89	8/2/89	10/16/89	4/24/90
Compound	DHS Action Level ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)
Chloromethane	---	ND	ND	ND	ND
Bromomethane	---	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND
Chloroethane	---	ND	ND	ND	ND
Methylene chloride	40	ND	ND	ND	ND
Trichlorofluoromethane	3,400	ND	ND	ND	ND
1,1-dichloroethene	as ethylene 6	ND	16	6	21
1,1-dichloroethane	20	ND	ND	ND	ND
Trans-1,2-dichloroethene	as ethylene 16	ND	ND	ND	ND
Chloroform	---	ND	ND	ND	ND
1,2-dichloroethane	1	ND	ND	ND	ND
1,1,1-trichloroethane	200	ND	ND	ND	2.5
Carbon tetrachloride	5	ND	ND	ND	ND
Bromodichloromethane	---	ND	ND	ND	ND
1,2-dichloropropane	10	ND	ND	ND	ND
Cis-1,3-dichloropropene	---	ND	ND	ND	ND
Trichloroethene	as ethylene 5	25	42	21	42
Benzene	0.7	ND	ND	ND	ND
Dibromochloromethane	---	ND	ND	ND	ND
1,1,2-trichloroethane	100	ND	ND	ND	ND
Trans-1,3-dichloropropene	---	ND	ND	ND	ND
2-chloroethylvinylether	---	ND	ND	ND	ND
Bromoform	---	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	---	ND	ND	ND	ND
Tetrachloroethene	as ethylene 4	64	39	36	55
Toluene	100	ND	ND	ND	ND
Chlorobenzene	30	ND	ND	ND	ND
Ethylbenzene	680	ND	ND	ND	ND
1,3-dichlorobenzene	130	ND	ND	ND	ND
1,2-dichlorobenzene	130	ND	ND	ND	ND
1,4-dichlorobenzene	Limit of quantif. = 0.5	ND	ND	ND	ND
Freon 113	18,000	ND	7	ND	10
Total Xylenes	620	ND	ND	ND	ND
Cis-1,2-dichloroethene	---	NA	NA	NA	ND
1,2-dichloroethene (total)	---	NA	NA	NA	ND

mg/L = milligrams per liter
ug/L = micrograms per liter
ND = not detected at or above detection limit
NA = not analyzed

TABLE 2 (Continued)
MONITORING WELL MW-4 GROUNDWATER SAMPLES

Method of Analysis		EPA Method 624	EPA Method 624	EPA Method 624	EPA Method 601/60
Date of Analysis		3/30/89	8/4/89	10/25/89	4/26/90
Date of Sampling		3/28/89	8/2/89	10/16/89	4/24/90
Compound	DHS Action Level ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)	Concentration ug/L (ppb)
Chloromethane	---	ND	ND	ND	ND
Bromomethane	---	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND
Chloroethane	---	ND	ND	ND	ND
Methylene chloride	40	ND	ND	ND	ND
Trichlorofluoromethane	3,400	ND	ND	5	3.3
1,1-dichloroethene	as ethylene 6	11	10	22	27
1,1-dichloroethane	20	ND	ND	ND	ND
Trans-1,2-dichloroethene	as ethylene 16	ND	ND	4	ND
Chloroform	---	ND	ND	ND	0.8
1,2-dichloroethane	1	ND	ND	ND	ND
1,1,1-trichloroethane	200	ND	ND	ND	3.1
Carbon tetrachloride	5	ND	ND	ND	1.1
Bromodichloromethane	---	ND	ND	ND	ND
1,2-dichloropropane	10	ND	ND	ND	ND
Cis-1,3-dichloropropene	---	ND	ND	ND	ND
Trichloroethene	as ethylene 5	44	26	52	55
Benzene	0.7	ND	ND	ND	ND
Dibromochloromethane	---	ND	ND	ND	ND
1,1,2-trichloroethane	100	ND	ND	ND	ND
Trans-1,3-dichloropropene	---	ND	ND	ND	ND
2-chloroethylvinylether	---	ND	ND	ND	ND
Bromoform	---	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	---	ND	ND	ND	ND
Tetrachloroethene	as ethylene 4	55	36	120	120
Toluene	100	ND	ND	ND	ND
Chlorobenzene	30	ND	ND	ND	ND
Ethylbenzene	680	ND	ND	ND	ND
1,3-dichlorobenzene	130	ND	ND	ND	ND
1,2-dichlorobenzene	130	ND	ND	ND	ND
1,4-dichlorobenzene	Limit of quantif. = 0.5	ND	ND	ND	ND
Freon 113	18,000	3	4	13	13
Total Xylenes	620	ND	ND	ND	ND
Cis-1,2-dichloroethene	---	NA	NA	NA	2.8
1,2-dichloroethene (total)	---	NA	NA	NA	2.8

mg/L = milligrams per liter
ug/L = micrograms per liter
ND = not detected at or above detection limit
NA = not analyzed

TABLE 3

TOTAL DISSOLVED SOLIDS AND TURBIDITY

Monitoring Well	Date of Analysis 2/3/89 Turbidity (NTU)	4/12/89 Turbidity (NTU)	8/4/89 Turbidity (NTU)	10/25/89 TDS (mg/l)	4/26/90 Turbidity (NTU)
MW-1	150	NA	2.1	1,000	9.0
MW-2	6.6	NA	3.4	920	18.0
MW-3	23	NA	3.7	1,300	7.7
MW-4	NA	100	1.2	830	10.0
Field Blank	NA	NA	NA	540	NA
Method Blank	0.2	<1	<0.2	NA	<0.1

mg/l = milligrams per liter
NA = not analyzed
NTU = Nephelometric Turbidometric Units

TABLE 4

AVERAGE PRE-SAMPLE pH VALUES

Monitoring Event	First	Second	Third	Fourth
MW-1	6.22	6.26	6.29	6.89
MW-2	6.48	6.62	6.42	6.85
MW-3	6.52	6.41	6.42	6.57
MW-4	6.19	6.65	6.61	6.78

APPENDIX A

WATER SAMPLING FIELD SURVEY FORMS

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WATER SAMPLING FIELD SURVEY FORM

Job # 29188.00 Site: Stoody Company Date: 4/24/90

Well # MW-1 Sampling Team: J. McNinch

Sampling Method: H-F Drilling: Rig bailing

Field Conditions: Clear and sunny, approximately 70°F; Rain the previous day

Describe Equipment D-Con Before Sampling This Well: Alconox and tap water wash, followed by deionized water double rinse.

Total Depth of Well: 44.8 feet Time: 12:40 Depth to Water Before Pumping: 28.6 feet

Volume Height of Water Column:		Diameter 2-inch	Diameter 4-inch		Purge Factor		To Purge
16.2 feet	*	.16	.65	= 10.53 gal	* 3	=	31.6

Depth Purging From: 42 feet Time Surging Begins: 12:45

Notes on Initial Discharge: Clear, odorless.

Time	Volume Purged	pH	Conductivity	T	Notes
13:10	11 gal	6.80	11:40	23	Medium brown, odorless
13:16	12 gal	6.84	11:10	22.5	Medium brown, odorless
13:25	20 gal	6.85	10:70	22	Medium brown, odorless

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WATER SAMPLING FIELD SURVEY FORM
(CONTINUED)

Time Field Parameter Measurement Begins: 15:20

	Rep #1	Rep #2	Rep #3	Rep #4
pH	6.86	6.93		
Conductivity	1180	1190		
T°C	22.5	22.5		

Pre-Sample Collection Gallons Purged: 43

Time Sample Collection Begins: 15:27

Time Sample Collection Ends: 15:40

Total Gallons Purged: 44

Comments: Well head inside had approximately 1/2 of rainwater. Otherwise, clean, lock was in place.

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CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM

Job # 29188.00 Site: Stoody Company Date: 4/24/90

Well # MW-2 Sampling Team: J. McNinch

Sampling Method: H-F Drilling: Rig bailing

Field Conditions: Clear and sunny, approximately 70°F; Rain the previous day

Describe Equipment D-Con Before Sampling This Well: Alconox and tap water wash, followed by deionized water double rinse.

Total Depth of Well: 44.9 feet Time: 10:50 Depth to Water Before Pumping: 27.4 feet

Volume Height of Water Column:		Diameter 2-inch	Diameter 4-inch		Volume		Purge Factor		To Purge
17.5	feet *	.16	.65	=	11.4	gal *	3	=	34.1

Depth Purging From: 42 feet Time Surging Begins: 11:10

Notes on Initial Discharge: Very clear, odorless.

Time	Volume Purged	pH	Conductivity	T	Notes
11:15	11 gal	6.80	9:40	23	Medium brown, odorless
11:23	12 gal	6.80	9:20	22	Medium brown, odorless
11:30	20 gal	6.85	9:70	22	Medium brown, odorless
11:40	25 gal	6.85	9:40	21.5	Medium brown, odorless

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CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM
(CONTINUED)

Time Field Parameter Measurement Begins: 14:30

	Rep #1	Rep #2	Rep #3	Rep #4
pH	6.84	6.87		
Conductivity	970	960		
T°C	22	22		

Pre-Sample Collection Gallons Purged: 68

Time Sample Collection Begins: 14:40

Time Sample Collection Ends: 14:43

Total Gallons Purged: 69

Comments: Inside well head was dry. Lock was in place.

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CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM

Job # 29188.00 Site: Stoody Company Date: 4/24/90

Well # MW-3 Sampling Team: J. McNinch

Sampling Method: H-F Drilling: Rig bailing

Field Conditions: Clear and sunny, approximately 70°F; Rain the previous day

Describe Equipment D-Con Before Sampling This Well: Alconox and tap water wash, followed by deionized water double rinse.

Total Depth of Well: 44.8 feet Time: 9:10 Depth to Water Before Pumping: 29.8 feet

Volume Height of Water Column:		Diameter 2-inch	Diameter 4-inch		Volume		Purge Factor		To Purge
15.0	feet *	.16	.65	=	9.75	gal *	3	=	29.25

Depth Purging From: 42 feet Time Surging Begins: 9:47

Notes on Initial Discharge: Clear, no obvious turbidity, odorless.

Time	Volume Purged	pH	Conductivity	T	Notes
9:55	10 gal	6.5	1030	23	Medium brown, very turbid
10:00	10 gal	6.76	990	23	Medium brown, odorless
10:07	10 gal	6.85	1010	23	Medium brown, but clearing
10:20	18 gal	6.85	1020	21.5	Light brown
10:28	15 gal	6.85	1000	21.5	Light brown

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM
(CONTINUED)

Time Field Parameter Measurement Begins: 13:50

	Rep #1	Rep #2	Rep #3	Rep #4
pH	6.54	6.60		
Conductivity	1220	1250		
T°C	22.5	22.5		

Pre-Sample Collection Gallons Purged: 63

Time Sample Collection Begins: 14:05

Time Sample Collection Ends: 14:10

Total Gallons Purged: 64

Comments: Inside well head was dry. Lock was in place.

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CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM

Job # 29188.00 Site: Stoody Company Date: 4/24/90

Well # MW-4 Sampling Team: J. McNinch

Sampling Method: H-F Drilling: Rig bailing

Field Conditions: Clear and sunny, approximately 70°F; Rain the previous day

Describe Equipment D-Con Before Sampling This Well: Alconox and tap water wash, followed by deionized water double rinse.

Total Depth of Well: 48.6 feet Time: 12:00 Depth to Water Before Pumping: 29.1 feet

Volume Height of Water Column:		Diameter 2-inch	Diameter 4-inch		Volume		Purge Factor		To Purge
19.5	feet *	.16	.65	=	12.67	gal *	3	=	38.0

Depth Purging From: 45 feet Time Surging Begins: 12:05

Notes on Initial Discharge: Clear, odorless.

Time	Volume Purged	pH	Conductivity	T	Notes
12:10	13 gal	6.87	1150	22	Light brown, odorless
12:15	13 gal	6.92	1040	21.5	Light brown, odorless
12:23	25 gal	6.80	1000	21.5	Light brown, odorless

Just bailing rather than surging.

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CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM
(CONTINUED)

Time Field Parameter Measurement Begins: 14:55

	Rep #1	Rep #2	Rep #3	Rep #4
pH	6.77	6.80		
Conductivity	900	870		
T°C	22.5	22		

Pre-Sample Collection Gallons Purged: 51

Time Sample Collection Begins: 15:05

Time Sample Collection Ends: 15:10

Total Gallons Purged: 52

Comments: Inside well head was dry. Lock was in place.

APPENDIX B

LABORATORY RESULTS AND CHAIN-OF-CUSTODY

Western Operations

1252 Quarry Lane
Pleasanton, CA 94566
(415) 426-2600
Fax (415) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

May 1, 1990

Mr. Jesse McNinch
CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
5736 Corporate Ave.
Cypress, CA 90630

Client Ref. No. 21171.00
Work Order No. 9004171
Lab Client Code INT_EEC

Dear Mr. McNinch:

Attached is our analytical laboratory report for the samples received on April 26, 1990. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Maryann Gambino, Client Services Representative, at (415) 426-2657.

Sincerely,

Mary D. Beck for

Ronald H. Peters, CIH
Manager, Laboratory Services
Western Operations

RHP/dt
Attachments

EPA METHOD 601
PURGEABLE HALOCARBONS

Sample I.D.: MW-1

Client: STOODY / INDUSTRY

Sample Received: 04/26/90

Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90

Lab Client Code: INT_EEC

Sample Matrix: WATER

Lab No.: 9004171-01A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-Dichloroethene	75-35-4	25	0.2
1,1-Dichloroethane	75-35-3	ND	0.4
Trans-1,2-Dichloroethene	156-60-5	ND	0.4
Cis-1,2-Dichloroethene	156-59-2	1.8	0.4
1,2-Dichloroethene (total)	540-59-0	1.8	0.4
Chloroform	67-66-3	0.7	0.5
1,2-Dichloroethane	107-06-2	ND	0.3
1,1,1-Trichloroethane	71-55-6	2.5	0.5
Carbon tetrachloride	56-23-5	0.9	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-Dichloropropane	78-87-5	ND	0.5
Cis-1,3-Dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	50	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-Trichloroethane	79-00-5	ND	0.6
Trans-1,3-Dichloropropene	10061-02-6	ND	0.6
2-Chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	120	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-Dichlorobenzene	541-73-7	ND	2
1,2-Dichlorobenzene	95-50-1	ND	4
1,4-Dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	3.0	0.4
Freon 113	76-13-1	12	0.6

ND = Not detected at or above limit of detection

EPA METHOD 602
PURGEABLE AROMATICS

Sample I.D.: MW-1

Client: STOODY / INDUSTRY

Sample Received: 04/26/90

Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90

Lab Client Code: INT_EEC

Sample Matrix: WATER

Lab No.: 9004171-01A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	ND	0.4
Chlorobenzene	108-90-7	ND	0.3
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-7	ND	0.3
1,4-Dichlorobenzene	106-46-7	ND	0.5
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
Xylenes	1330-20-7	ND	0.4

ND = Not detected at or above limit of detection

EPA METHOD 601
PURGEABLE HALOCARBONS

Sample I.D.: MW-2

Client: STOODY / INDUSTRY

Sample Received: 04/26/90

Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90

Lab Client Code: INT_EEC

Sample Matrix: WATER

Lab No.: 9004171-02A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-Dichloroethene	75-35-4	19	0.2
1,1-Dichloroethane	75-35-3	ND	0.4
Trans-1,2-Dichloroethene	156-60-5	ND	0.4
Cis-1,2-Dichloroethene	156-59-2	2.2	0.4
1,2-Dichloroethene (total)	540-59-0	2.2	0.4
Chloroform	67-66-3	0.7	0.5
1,2-Dichloroethane	107-06-2	ND	0.3
1,1,1-Trichloroethane	71-55-6	3.3	0.5
Carbon tetrachloride	56-23-5	0.8	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-Dichloropropane	78-87-5	ND	0.5
Cis-1,3-Dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	44	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-Trichloroethane	79-00-5	ND	0.6
Trans-1,3-Dichloropropene	10061-02-6	ND	0.6
2-Chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	170	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-Dichlorobenzene	541-73-7	ND	2
1,2-Dichlorobenzene	95-50-1	ND	4
1,4-Dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	2.4	0.4
Freon 113	76-13-1	8.5	0.6

ND = Not detected at or above limit of detection

EPA METHOD 602
PURGEABLE AROMATICS

Sample I.D.: MW-2

Client: STOODY / INDUSTRY

Sample Received: 04/26/90

Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90

Lab Client Code: INT_EEC

Sample Matrix: WATER

Lab No.: 9004171-02A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	ND	0.4
Chlorobenzene	108-90-7	ND	0.3
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-7	ND	0.3
1,4-Dichlorobenzene	106-46-7	ND	0.5
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
Xylenes	1330-20-7	ND	0.4

ND = Not detected at or above limit of detection

EPA METHOD 601
PURGEABLE HALOCARBONS

Sample I.D.: MW-3
Client: STOODY / INDUSTRY
Sample Received: 04/26/90
Client Ref. No.: 21171.00
Sample Analyzed: 04/26/90
Lab Client Code: INT_EEC
Sample Matrix: WATER
Lab No.: 9004171-03A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-Dichloroethene	75-35-4	21	0.2
1,1-Dichloroethane	75-35-3	ND	0.4
Trans-1,2-Dichloroethene	156-60-5	ND	0.4
Cis-1,2-Dichloroethene	156-59-2	ND	0.4
1,2-Dichloroethene (total)	540-59-0	ND	0.4
Chloroform	67-66-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.3
1,1,1-Trichloroethane	71-55-6	2.5	0.5
Carbon tetrachloride	56-23-5	ND	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-Dichloropropane	78-87-5	ND	0.5
Cis-1,3-Dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	42	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-Trichloroethane	79-00-5	ND	0.6
Trans-1,3-Dichloropropene	10061-02-6	ND	0.6
2-Chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	55	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-Dichlorobenzene	541-73-7	ND	2
1,2-Dichlorobenzene	95-50-1	ND	4
1,4-Dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	ND	0.4
Freon 113	76-13-1	10	0.6

ND = Not detected at or above limit of detection

EPA METHOD 602
PURGEABLE AROMATICS

Sample I.D.: MW-3

Client: STOODY / INDUSTRY

Sample Received: 04/26/90

Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90

Lab Client Code: INT_EEC

Sample Matrix: WATER

Lab No.: 9004171-03A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	ND	0.4
Chlorobenzene	108-90-7	ND	0.3
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-7	ND	0.3
1,4-Dichlorobenzene	106-46-7	ND	0.5
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
Xylenes	1330-20-7	ND	0.4

ND = Not detected at or above limit of detection

EPA METHOD 601
PURGEABLE HALOCARBONS

Sample I.D.: MW-4
Client: STOODY / INDUSTRY

Sample Received: 04/26/90
Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90
Lab Client Code: INT_EEC

Sample Matrix: WATER
Lab No.: 9004171-04A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-Dichloroethene	75-35-4	27	0.2
1,1-Dichloroethane	75-35-3	ND	0.4
Trans-1,2-Dichloroethene	156-60-5	ND	0.4
Cis-1,2-Dichloroethene	156-59-2	2.8	0.4
1,2-Dichloroethene (total)	540-59-0	2.8	0.4
Chloroform	67-66-3	0.8	0.5
1,2-Dichloroethane	107-06-2	ND	0.3
1,1,1-Trichloroethane	71-55-6	3.1	0.5
Carbon tetrachloride	56-23-5	1.1	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-Dichloropropane	78-87-5	ND	0.5
Cis-1,3-Dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	55	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-Trichloroethane	79-00-5	ND	0.6
Trans-1,3-Dichloropropene	10061-02-6	ND	0.6
2-Chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	120	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-Dichlorobenzene	541-73-7	ND	2
1,2-Dichlorobenzene	95-50-1	ND	4
1,4-Dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	3.3	0.4
Freon 113	76-13-1	13	0.6

ND = Not detected at or above limit of detection

EPA METHOD 602
PURGEABLE AROMATICS

Sample I.D.: MW-4
Client: STOODY / INDUSTRY

Sample Received: 04/26/90
Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90
Lab Client Code: INT_EEC

Sample Matrix: WATER
Lab No.: 9004171-04A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	ND	0.4
Chlorobenzene	108-90-7	ND	0.3
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-7	ND	0.3
1,4-Dichlorobenzene	106-46-7	ND	0.5
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
Xylenes	1330-20-7	ND	0.4

ND = Not detected at or above limit of detection

EPA METHOD 601
PURGEABLE HALOCARBONS

Sample I.D.: FIELD BLANK

Client: STOODY / INDUSTRY

Sample Received: 04/26/90

Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90

Lab Client Code: INT_EEC

Sample Matrix: WATER

Lab No.: 9004171-05A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-Dichloroethene	75-35-4	ND	0.2
1,1-Dichloroethane	75-35-3	ND	0.4
Trans-1,2-Dichloroethene	156-60-5	ND	0.4
Cis-1,2-Dichloroethene	156-59-2	ND	0.4
1,2-Dichloroethene (total)	540-59-0	ND	0.4
Chloroform	67-66-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.3
1,1,1-Trichloroethane	71-55-6	ND	0.5
Carbon tetrachloride	56-23-5	ND	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-Dichloropropane	78-87-5	ND	0.5
Cis-1,3-Dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	ND	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-Trichloroethane	79-00-5	ND	0.6
Trans-1,3-Dichloropropene	10061-02-6	ND	0.6
2-Chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-Dichlorobenzene	541-73-7	ND	2
1,2-Dichlorobenzene	95-50-1	ND	4
1,4-Dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	ND	0.4
Freon 113	76-13-1	ND	0.6

ND = Not detected at or above limit of detection

EPA METHOD 602
PURGEABLE AROMATICS

Sample I.D.: FIELD BLANK
Client: STOODY / INDUSTRY

Sample Received: 04/26/90
Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90
Lab Client Code: INT_EEC

Sample Matrix: WATER
Lab No.: 9004171-05A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	ND	0.4
Chlorobenzene	108-90-7	ND	0.3
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-7	ND	0.3
1,4-Dichlorobenzene	106-46-7	ND	0.5
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
Xylenes	1330-20-7	ND	0.4

ND = Not detected at or above limit of detection

EPA METHOD 601
PURGEABLE HALOCARBONS

Sample I.D.: METHOD BLANK
Client: STOODY / INDUSTRY

Sample Received: 04/26/90
Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90
Lab Client Code: INT_EEC

Sample Matrix: WATER
Lab No.: 9004171-06A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	0.6
Bromomethane	74-83-9	ND	0.7
Vinyl chloride	75-01-4	ND	0.5
Chloroethane	75-00-3	ND	0.5
Methylene chloride	75-09-2	ND	2
1,1-Dichloroethene	75-35-4	ND	0.2
1,1-Dichloroethane	75-35-3	ND	0.4
Trans-1,2-Dichloroethene	156-60-5	ND	0.4
Cis-1,2-Dichloroethene	156-59-2	ND	0.4
1,2-Dichloroethene (total)	540-59-0	ND	0.4
Chloroform	67-66-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.3
1,1,1-Trichloroethane	71-55-6	ND	0.5
Carbon tetrachloride	56-23-5	ND	0.6
Bromodichloromethane	75-27-4	ND	0.7
1,2-Dichloropropane	78-87-5	ND	0.5
Cis-1,3-Dichloropropene	10061-01-5	ND	0.5
Trichloroethene	79-01-6	ND	0.3
Dibromochloromethane	124-48-1	ND	0.6
1,1,2-Trichloroethane	79-00-5	ND	0.6
Trans-1,3-Dichloropropene	10061-02-6	ND	0.6
2-Chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.7
Tetrachloroethene	127-18-4	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.7
1,3-Dichlorobenzene	541-73-7	ND	2
1,2-Dichlorobenzene	95-50-1	ND	4
1,4-Dichlorobenzene	106-46-7	ND	4
Dichlorodifluoromethane	75-71-8	ND	1
Trichlorofluoromethane	75-69-4	ND	0.4
Freon 113	76-13-1	ND	0.6

ND = Not detected at or above limit of detection

EPA METHOD 602
PURGEABLE AROMATICS

Sample I.D.: METHOD BLANK
Client: STOODY / INDUSTRY

Sample Received: 04/26/90
Client Ref. No.: 21171.00

Sample Analyzed: 04/26/90
Lab Client Code: INT_EEC

Sample Matrix: WATER
Lab No.: 9004171-06A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Benzene	71-43-2	ND	0.4
Chlorobenzene	108-90-7	ND	0.3
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-7	ND	0.3
1,4-Dichlorobenzene	106-46-7	ND	0.5
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
Xylenes	1330-20-7	ND	0.4

ND = Not detected at or above limit of detection

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See below	Client:	STOODY/INDUSTRY
Sample Received:	04/26/90	Client Ref. No.:	21171.00
Sample Analyzed:	04/27/90	Lab Client Code:	INT_EEC
Sample Matrix:	Soil	Lab No.:	9004171

Batch Sub. No.	Sample Identification	Turbidity (NTU)
-01B	MW-1	9.0
-02B	MW-2	18
-03B	MW-3	7.7
-04B	MW-4	10
-MB	Method Blank	<0.1
Limit of detection:		0.1
Method Reference:		EPA 180.1

< = less than, below limit of detection

NTU = Nephelometric Turbidometric Units

Clayton
ENVIRONMENTAL CONSULTANTS
A Marsh & McLennan Company

REQUEST FOR LABORATORY ANALYTICAL SERVICES

Stoody Co.

For Clayton Use Only — Page 1 of 1
Project No.
Batch No. 9004171
Client No.
Date Received 4-26-90 By TS
Date Logged In ✓ By ✓

Purchase Order No. | Client Job No. 21171.00

SEND INVOICE TO
Name JESSE MENinch
Company CLAYTON Dept. EE
Address 5736 CORPORATE AVE
City, State, Zip CYPRESS CA 90630-0788

REPORT RESULTS TO
Name | Title
Company | Dept.
Mailing Address CLAYTON
City, State, Zip
Telephone No. | Telefax No.

Date Results Required: 14 DAY turnAROUND
Rush Charges Authorized? ☐ Yes ☑ No

Special Instructions: (method, limit of detection, phone results, rush results, etc.)

* Explanation of Preservative:

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	EPA Method 601/602	turbidity								FOR LAB USE ONLY
MW-1	4-24	WATER	40 ml	1	X									01A
MW-1	"	"	1 l	1		X								↓B
MW-2	"	"	40 ml	1	X									02A
MW-2	"	"	1 l	1		X								↓B
MW-3	"	"	40 ml	1	X									03A
MW-3	"	"	1 l	1		X								↓B
MW-4	"	"	40 ml	1	X									04A
MW-4	"	"	1 l	1		X								↓B
FIELD BLANK	"	"	40 ml	1	X									05A

CHAIN OF CUSTODY (if required)
Relinquished by: J. Elwyn McNinch Date/Time 4/25 1600
Relinquished by: Date/Time
Method of Shipment:
Received by: Date/Time
Received at lab by: Tilley Salvo Date/Time 10:30 AM 4-26-90
Sample condition upon receipt: OK

Authorized by: J. Elwyn McNinch Date 4-25-90
(Client Signature Must Accompany Request)

Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

22345 Roethel Drive, Novi, MI 48050, (313) 344-1770
Raritan Center, 160 Fieldcrest Ave., Edison, NJ 08837, (201) 225-6040
400 Chastain Center Blvd., N.W., Suite 490, Kennesaw, GA 30144, (404) 499-7500
1252 Quarry Lane, Pleasanton, CA 94566, (415) 426-2600

DISTRIBUTION:
WHITE - Clayton Laboratory
YELLOW - Clayton Accounting
PINK - Client Retains